

**Table Comparing Default Ingestion Input
World Trade Center 2003 benchmarks with BPRG**

Variable	Description	WTC 2003	Units 2003	BPRG 2007
EDres	Exposure Duration - Resident	30	yr	30
EDres-c	Exposure Duration - Resident Child	6	yr	6
EDres-a	Exposure Duration - Resident Adult	24	yr	24
EFres	Exposure Frequency - Resident	350	days/yr	350
EFres-c	Exposure Frequency - Resident Child	350	days/yr	350
EFres-a	Exposure Frequency - Resident Adult	350	days/yr	350
ETres	Exposure Time - Resident	24	hr/day	24
ETres-c	Exposure Time - Resident Child	24	hr/day	24
ETres-a	Exposure Time - Resident Adult	24	hr/day	24
ETres-c,h	Exposure Time - Resident Child Hard Surface	6	hr/day	6
ETres-a,h	Exposure Time - Resident Adult Hard Surface	6	hr/day	6
ETres-c,s	Exposure Time - Resident Child Soft Surface	10	hr/day	10
ETres-a,s	Exposure Time - Resident Adult Soft Surface	10	hr/day	10
FQres-c	Frequency of Hand to Mouth - child	9.5	event/hr	9.5
FQres-a	Frequency of Hand to Mouth - adult	1	event/hr	1
FTSSh	Fraction Transferred Surface to Skin - hard surface	0.5	unitless	0.5
FTSSs	Fraction Transferred Surface to Skin - soft surface	0.1	unitless	0.1
IFDres-adj	Age-Adjusted Resident Dust Ingestion Fraction	NA		3870
k	Dissipation Rate Constant	0.38	yr^-1	0
SAres-a	Surface Area of Fingers - Resident Adult	45	cm^2	45
SAres-c	Surface Area of Fingers - Resident Child	15	cm^2	15
SE	Saliva Extraction Factor	0.5	unitless	0.5
tres	Time - resident	30	yr	30

Yellow highlighted BPRG defaults that differ from WTC defaults

WTC 2003 = World Trade Center Indoor Environment Assessment: Selecting Contaminants of
U.S. EPA 2011 = 2011 Exposure Factors Handbook

U.S. EPA 2014 = 2014 Human Health Evaluation Manual: Update of Standard Exposure Factors

**Parameters for Dust Ingestion
when issued (2007) and current (2020)**

Units 2007	BPRG 2020	Units	Reason for change
yrs	26	yrs	U.S. EPA 2014 (Attachment 1)
yrs	6	yrs	
yrs	20	yrs	U.S. EPA 2014 (Attachment 1)
days/yr	350	days/yr	
days/yr	350	days/yr	
days/yr	350	days/yr	
hr/day	24	hr/day	
hr/day	24	hr/day	
hr/day	24	hr/day	
hr/day	6	hr/day	
hr/day	6	hr/day	
hr/day	10	hr/day	
hr/day	10	hr/day	
event/hr	17	event/hr	EPA 2011 Table 4.1
event/hr	3	event/hr	EPA 2011 Table 4.1
unitless	0.5	unitless	
unitless	0.1	unitless	
cm ² -year/day	3200400	cm ²	Change in units because equation was rearranged to accommodate age adjustment (compare of BPRG age adjusted ingestion of dust equation to the 2007 ingestion of dust equation). Additionally, the value for FQ was updated.
yr ⁻¹	0	yr ⁻¹	WTC justified site-specific dissipation rate.
cm ²	49	cm ²	EPA 2011 Table 7.2
cm ²	16	cm ²	EPA 2011 Table 7.2
unitless	0.5	unitless	
yr	26	yr	U.S. EPA 2014 (Attachment 1)

Potential Concern and Setting Health-Based Benchmarks

(OSWER Directive 9200.1-120)